

**MEDICAL DEVICE PROGRAMMER
WITH REDUCED-NOISE POWER SUPPLY**

ABSTRACT

A programmer for a medical device, such as a neurostimulator, includes a reduced-noise power supply that converts dc power provided by a battery source to power for components within the programmer. The power supply includes a pulse-skipping dc-dc boost converter. The programmer provides an input circuit for selectively inhibiting pulse-skipping to reduce switching noise that could otherwise undermine wireless telemetry performance between the programmer and a medical device.